

Equipment No's: Ref. Enclosed page

Spec. No.:

OWS-DPL-5783

TECHNICAL SPECIFICATIONS

5-7/8" OD TWDP. "Landing String", V 150, ST-57 Conn's.

New

Premium

90% Remaining Body Wall

DESCRIPTION

Type

IEU, 41.05 #

Range

2

Conventional=welded T-J. / Integral=Monoblock

Conventional

TUBE DATA

Material grade

V 150

Internal plastic coating

DJ-207

Tube body OD x ID

inch

5.875

4.375

5.725

4.375

Wall thickness, nominal

inch

0.750

0.675

Cross Sectional Area

inch²

12.075

10.709

Polar Sectional Modulus

inch³

27.571

24.278

Tensile yield pipe

lbf

1,811,325

1,606,336

kN

8,057

7,145

Torsional yield pipe

lbf-ft

198,858

175,105

kNm

269.6

237.4

80% Torsional Yield

lbf-ft

159,086

140,084

kNm

215.7

189.9

CONNECTIONS DATA

Connection type

ST-57

Material grade

130 ksi

Hardbanding

N/A

OD x ID

inch

7.250

3.500

B.S.R.

x : 1

NA

NA

Tensile yield tooljoint

lbf

1,894,002

kN

8,425

Torsional yield tooljoint

lbf-ft

127,513

kNm

172.9

Recommended make-up torque (Max. 89 300)

lbf-ft

76,500

kNm

103.7

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio

=> 0.80

0.64

0.73

Drift diameter

inch

3.375

Type of elevator shoulder

18°

Burst pressure

psi

33,511

34,468

Mpa

231

238

Collapse pressure

psi

33,409

31,201

MPa

230

215

Adjusted weight

lbs/ft

48.07

kg/mtr

71.5

Approx weight each joint

lbs

1,514

kg

687

Capacity

gal/ft

0.74

ltr/mtr

9.24

Open end displacement

gal/ft

0.74

ltr/mtr

9.13

Closed end displacement

gal/ft

1.48

ltr/mtr

18.37

Built In Length (shoulder to shoulder)

ft

31.5

mtr.

9.60

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-DPL-5783	264	OWS-800 to OWS-1063



DRILL PIPE PERFORMANCE DATA SHEET



Pipe Size & Weight: 5-7/8 Landing String 0.750WT IEU
Pipe Grade: V
Range: 2
Tool Joint: 7.25 X 3.5 DPM-ST57

IMPERIAL UNIT

DRILL PIPE DIMENSIONS & MATERIALS

DRILL PIPE WEAR & MECHANICAL PERFORMANCES

PIPE	NEW				NEW				90% INSPECTION CLASS		PREMIUM (80%)	
	Pipe size	in	5-7/8_LandingString	0.750WT_IEU	Pipe Grade	OD	in	Wall Thickness	in	5.875	5.725	5.575
Pipe Body Material Yield Strength	Pipe Length Range 2 or 3	psi			V					0.750	0.675	0.600
					2			Cross Sectional Area Pipe Body	in Sq	12.075	10.709	9.378
								Section Modulus	in Cu	13.786	12.139	10.560
Calculated Plain End Weight	ID	in			4.375			Polar Section Modulus	in Cu	27.571	24.278	21.119
		lbs/ft			41.052			Tensile Strength	lbs	1,811,325	1,606,336	1,406,648
	Cross Sectional Area OD	in Sq			27.109			Torsional Strength	ft-lbs	198,858	175,105	152,322
Cross Sectional Area ID		in Sq			15.033			80% Torsional Strength	ft-lbs	159,086	140,084	121,858
								Internal Pressure Capacity	psi	36,383	34,468	30,638
								Collapse Capacity	psi	33,409	31,201	28,812
TOOL JOINT	Connection Type				DPM-ST57			Tool Joint / Pipe Body Torsional Ratio		0.641	0.728	0.837
DRILL PIPE ASSEMBLY	Material Yield Strength	ksi			130			TOOL JOINT				
	OD	in			7.250			OD	in	7.250		
	ID	in			3.500			ID	in	3.500		
	Pin Tong Length	in			17.000			Tensile Strength	lbs	1,894,002		
	Box Tong Length	in			17.000			Torsional Strength	ft-lbs	127,513		
	Pin shoulder Angle	deg			35			Torsional Make-up Torque	ft-lbs	89,300		
	Shoulder-Shoulder Length	ft			31.50			Maximum Make-up Torque	ft-lbs	76,500		
	Adjusted Weight	lbs/ft			49.73 (Actual)			Recommended Make-up Torque	ft-lbs	7,481		
	Closed End Displacement	gal/ft			1.479			Balanced OD	in			
	Open End Displacement	gal/ft			0.735			Bevel Edge OD	in	7.438		

Datasheet for Reference Only

All new and premium properties are calculated based on nominal in accordance to API.
Torque performances calculated with coefficient of friction 0.08.
API recommends a torsional ratio of 0.8 or greater.
The use of the information is at reader's discretion and no warranty is implied or expressed by DP-Master with the use of information contained herein.
The information in this publication is subjected to change without notice, please contact DP-Master for the latest publication.
Make-up torque values are calculated based on thread compound friction factor of 1.00.
Internal Pressure Capacity for new drill pipe determined by multiplying a factor of 0.95 to the nominal wall thickness due to permissible wall thickness tolerance of minus 5%.



DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 5-7/8 Landing String 0.750WT IEU
Pipe Grade: V
Range: 2
Tool Joint: 7.25 X 3.5 DPM-ST57

Drill Pipe Rating: 1,248,800 lbs

Pipe Body Slip Crushing Capacity		Nominal	90% Inspection Class	API Premium Class
Slip Crushing Capacity	lbs	1,398,600	1,248,800	1,101,000
Assumed Slip Length	in	16.5		
Assumed Transverse Load Factor (K)		2.6		

Note: For reference only. Slip crushing capacity is dependent on slip design, coefficient of friction, drill pipe OD and other factors. Please consult slip manufacturer for more information.

Elevator Shoulder Information		Nominal Tool Joint OD	Worn to Min TJ OD for API Premium Class
Box OD	in	7.250	Not Applicable
	in	7.438	
Elevator Capacity (No wear factor)	lbs	1,539,200	
	lbs	1,439,200	
Assumed Elevator Bore		in	6.125

Note: For reference only. Elevator capacity is calculated based on assumed elevator bore and contact stress of 110,100 PSI. Please consult elevator manufacturer for more information.

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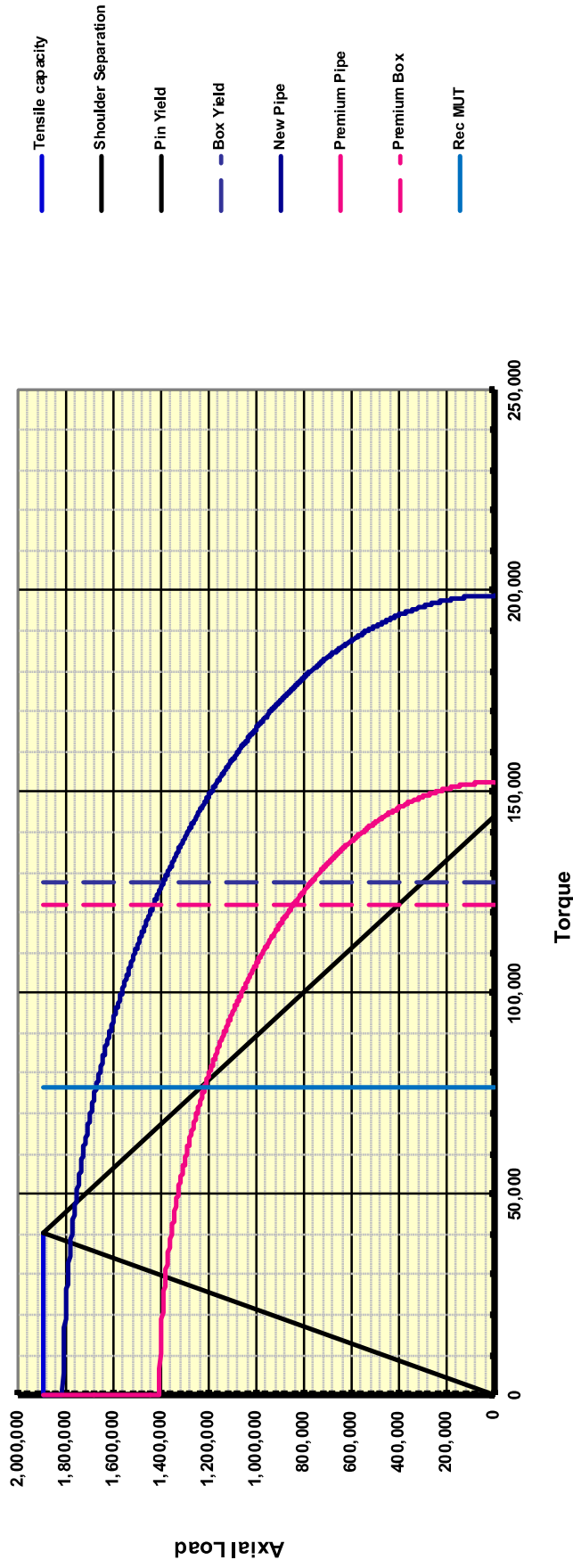
PERFORMANCE
DRILL PIPE

DRILL PIPE COMBINED LOAD CURVE

IMPERIAL UNIT

Pipe Size & Weight: 5-7/8 Landing String 0.750WT IEU
Pipe Grade: V
Range: 2
Tool Joint: 7.25 X 3.5 DPM-ST57

Make-up Torque Then Tension



Datasheet for Reference Only

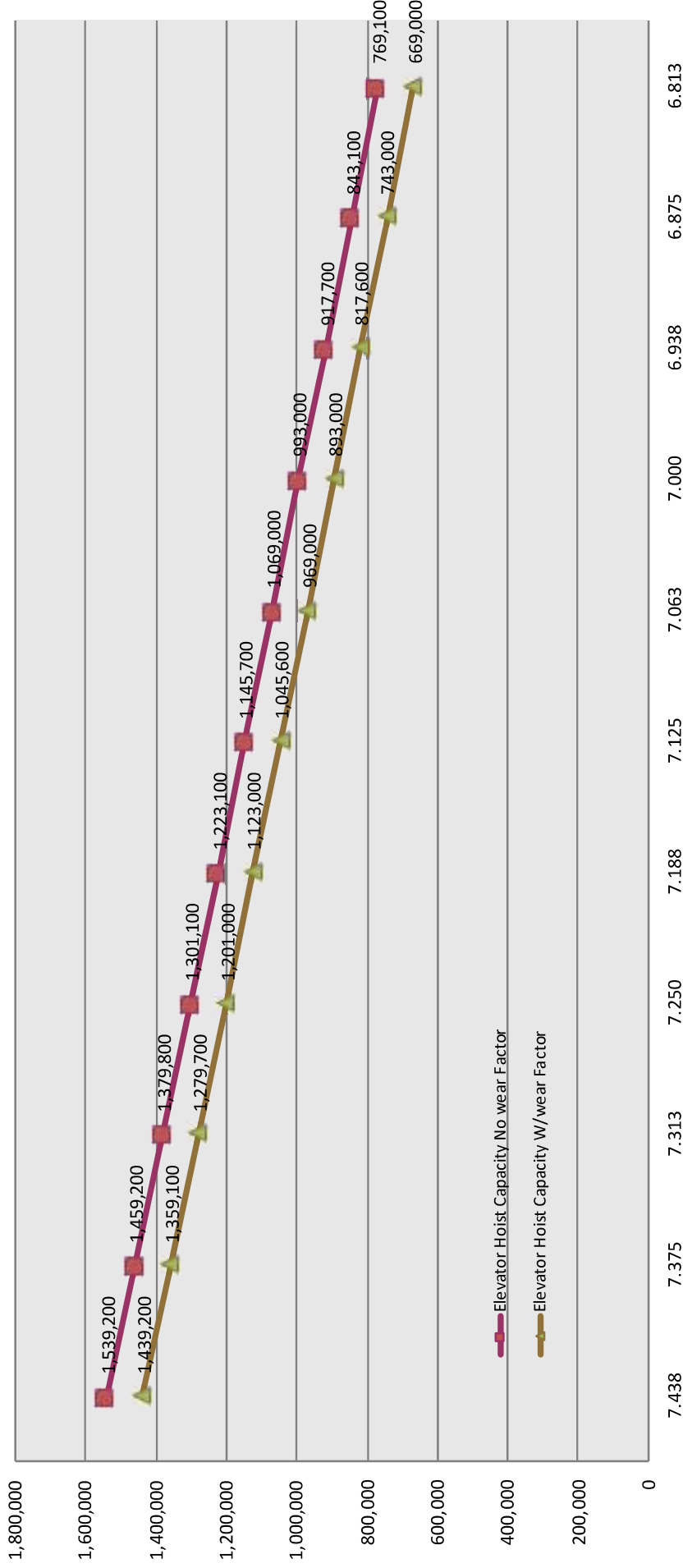
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ELEVATOR CAPACITY CURVE

IMPERIAL UNIT

Pipe Size & Weight: 5-7/8 Landing String 0.750WT IEU
Pipe Grade: V
Range: 2
Tool Joint: 7.25 X 3.5 DPM-ST57



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Imperial Unit: lbs-in
SI Unit: Kn-mm



PERFORMANCE
DRILL PIPE

CONNECTION WEAR CURVE & TABLE

IMPERIAL UNIT

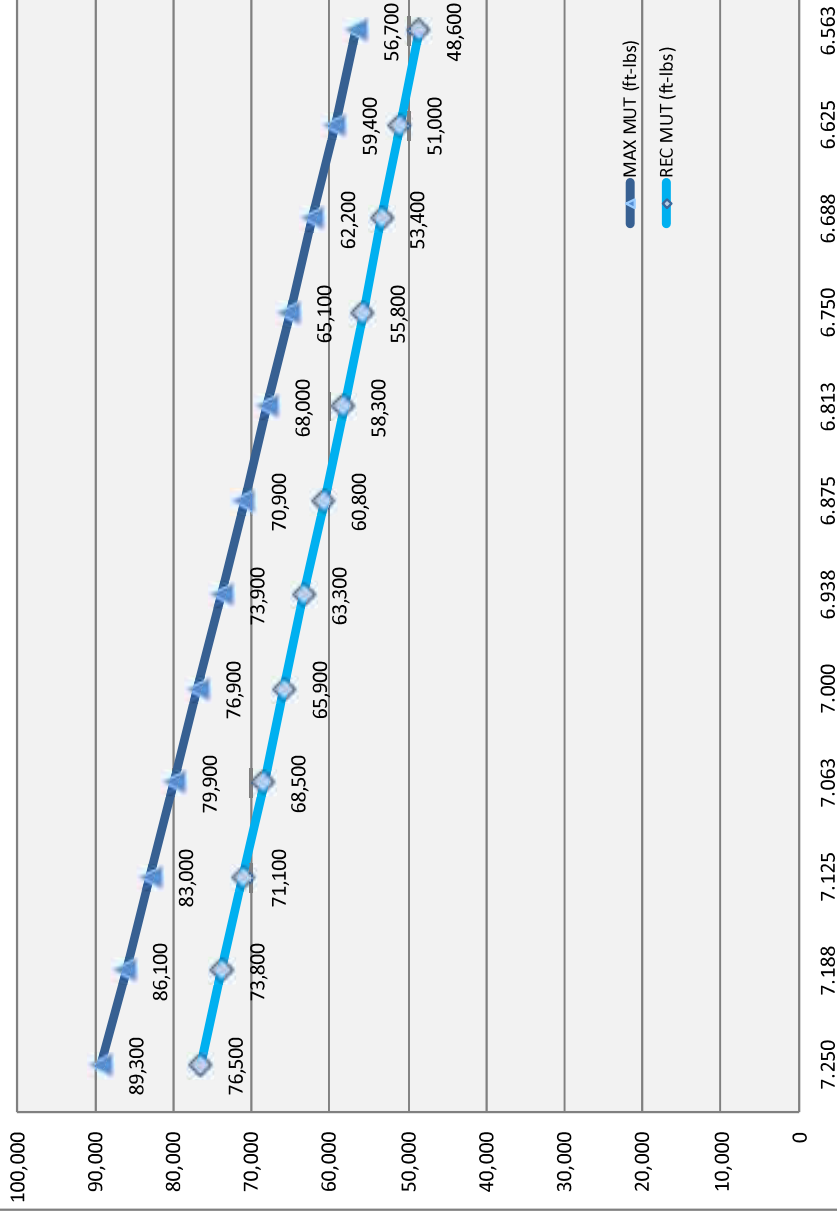
Pipe Size & Weight: 5-7/8 Landing String 0.750WT IEU

Pipe Grade: V

Range: 2

Tool Joint: 7.25 X 3.5 DPM-ST57

Connection Wear Curve



Connection Wear Table

TJ OD (in)	MAX MUT (ft-lbs)	REC MUT (ft-lbs)
7.250	89,300	76,500
7.188	86,100	73,800
7.125	83,000	71,100
7.063	79,900	68,500
7.000	76,900	65,900
6.938	73,900	63,300
6.875	70,900	60,800
6.813	68,000	58,300
6.750	65,100	55,800
6.688	62,200	53,400
6.625	59,400	51,000
6.563	56,700	48,600

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